

Patient Name:	Date of Surgery:	
Evaluate and Treat	Provide patient with home exercise program	

Frequency: ______ x/week x _____ weeks

Phase I (0 - 6 Weeks): Period of protection.*** Gradual progression of motion while protecting the reconstruction. Hinged elbow brace should be worn during sleep and in public places. Avoid any valgus loading of elbow until 3 months post-op.

Weeks 0-2: Goals = wound healing, pain control, minimize atrophy; formal therapy to start ~2 weeks postop.

- Splint/Brace: Immobilization in plaster splint/sling with wrist free → converted to hinged elbow brace (allowing ROM 45 to 90°) at 1 week visit. Brace should be worn at all times.
- ROM: Patients encouraged to perform flexion/extension of wrist without excessive forearm pronation. Once brace is applied, patients may begin AROM as tolerated 45-90° with brace on. A+PROM knee as tolerated (graft harvest site).

• Strengthening: Shoulder/biceps isometrics. Avoid valgus loading of elbow.

Weeks 2-4:

- Brace: Hinged elbow brace should be worn at night and in public places; may be removed for therapy and hygiene. ROM settings should be adjusted to allow whatever maximum amount of extension is achieved during therapy, with flexion limited to 90°.
- **ROM:** Advance AROM elbow, progressing as tolerated. Avoid aggressive passive stretching in flexion unless patient is not progressing. Avoid aggressive passive stretching in extension until after 4 weeks. Goal: 0-120 by 4 weeks postop.
- **Strengthening:** Cuff and periscapular strengthening. *Avoid valgus loading of elbow.* May begin knee strengthening as tolerated.

Weeks 4-5:

- Brace: Hinged elbow brace should be worn at night only, and gradually discontinued by 6 weeks. ROM settings should be 0-90°.
- ROM: Advance AROM as tolerated. If full extension is not achieved by 4 weeks, add soft-tissue mobilization with low-load, long-duration passive stretches. If 120° of flexion not achieved by 4 weeks, add low-load, long-duration passive stretching in flexion. Goal: 0-140 by 6 weeks postop.
- Strengthening: Grip strengthening, cuff and periscapular strengthening. *Avoid valgus loading of elbow.*



Phase II (6 - 16 Weeks): Advance strengthening.

- ROM: Advance A+PROM to full, if not achieved. Aggressive stretching at end-ranges to advance to full.
- **Strengthening:** Begin gentle, resisted cuff/periscapular strengthening and add in elbow and wrist flexion/extension. May transition into closed-chain exercises and incorporate overall body conditioning (if not already begun): running, elliptical, stationary bike. *Avoid valgus loading of the elbow until after 3 months.*

Phase III (4-12 Months): Begin more sport-focused conditioning. Graduated return to throwing as detailed below. Flare-ups of pain are common (most commonly secondary to throwing too hard), and should be addressed with several days of rest, followed by resumption of therapy once pain has resolved.

- Month 4: PT one time every 3-4 weeks. Start throwing at 45 ft for 10 min (3-4 times per week with rest day between), throwing just hard enough to reach the target. There should be a slight arc on the ball. Warm-up is included in the allotted time. Emphasis on proper follow-through at ball release and hitting specific targets when throwing. Hitting can be started for 10-15 minutes off the tee, gradually progressing in intensity.
- Month 5: PT one time every 3-4 weeks. Increase throwing to 60 ft for 10-15 min (3x/week); Start hitting soft-toss for 10-15 min (3x/week).
- Month 6: PT one time every 3-4 weeks. Advance to throwing from 120 ft for 15 min (3x/week) as follows:
 - 1st week: throwing at 60 ft for 15 min.
 - 2nd and 3rd weeks: throwing at 90 ft for 15 min; once this is achieved, consider videotape of throwing mechanics.
 - 4th week: throwing at 120 ft for 15 min.
- Months 7-8: Sport-specific return to throwing programs (see Ortho Carolina Pitcher and Fielder return to throwing program).
- Months 9-12: Gradual release to competition if successful completion of throwing program.

_ Other:

____ Modalities

Electrical Stimulation

_____ Ultrasound

_____ Heat before/after _____ Ice before/after exercise

By signing this referral, I certify that I have examined this patient and physical therapy is medically necessary. This patient _____ would _____ would not benefit from social services.

Physician Name: _____

Date:

